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Spread spectrum communication system

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Applicant(s) Name	Mitsubishi Denki K.K.		
Address			
Inventor(s) Name	Mura Hidetoshi		
Patent Agency Code	72001	Patent Agent	JIANG FUHOU

Abstract

In the present spread spectrum communication equipment there are some problems that needing complicated degrading control for variable speed transmission and different speed transmission or increasing the hardware, labor and the consumed electricity. Low rate data D1-D4 and mixed rate data D5 and D6 are time division multiplexed independently according to their rates by a time division multiplexer TDM(A) (110) so that their rates are converted into the rate of high rate data D7 and D8 which are not passed through the time division multiplexer TDM(A) (110). Subsequently the entire data are converted into biorthogonal signals by biorthogonal signal generators BORGs (121, 122a-126a), and code division multiplexed by a code division multiplexer CDMA (119a). This code division multiplexed signal undergoes modulation by a spreading modulator and a carrier modulator, and transmitted.

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